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Modified Form 1449/PTO	Application Number	08/934,143	
	Filing Date	September 19,1997	
INFORMATION DISCLOSURE	First Named Inventor	Richard J. Helferich	E Po
STATEMENT BY APPLICANT	Group Art Unit	2748 768Y	10 7
	Examiner Name	T. Nguyen	-82
(use as many sheets as necessary)	Attorney Docket Number	19504-014	8
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				J.S. PATENT DOCUMENTS			
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date if Appropriate
VOV	1.	4,868,560	9/19/89	Oliwa et al.	340	825	5/11/88
<u> </u>	2.	5,175,758	12/29/92	Levanto et al.	379	57	9/4/90
$\perp$	3.	5,455,823	10/3/95	Noreen et al.	370	50	10/19/92
	4.	5,463,672	10/31/95	Kage	379	59	12/14/92
	5.	5,489,894	2/6/96	Murray	340	825	4/4/94
	6.	5,630,207	5/13/97	Gitlin et al.	455	54	6/19/95
	7	5,684,859	11/4/97	Chanroo et al.	379	58	5/1/95
	8.	5,696,500	12/9/97	Diem	340	825	8/18/95
	9.	5,761,622	6/2/98	Priest	455	522	5/18/95
À	10.	5,815,800	9/29/98	Su et al.	455	31	6/24/96
यह	11.	5,850,594	12/15/98	Cannon et al.	455	31.3	8/26/96
							1
			12	42 3	125/05	7-	1

			FOREIGN PATENT DOCUMENTS			
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Complete if Known **Application Number** 09/688,321 INFORMATION COLSE **Filing Date** October 13, 2000 STATEMENT BY APPLICANT First Named Inventor Richard J. HELFERICH **Group Art Unit** 2685 **Examiner Name** T.T. Nguyen Confirmation No. 1 1 Sheet of **Attorney Docket Number** 0101-138 FEB 0 1 2005

echnology Center 2600 **FOREIGN PATENT DOCUMENTS** Foreign Patent Document Date of Publication of Examiner Cite Name of Patentee or Applicant of **Cited Document** Kind<sup>5</sup> Office<sup>3</sup> Number<sup>4</sup> т Initials\* No.1 **Cited Document** MM-DD-YYYY Code (if known) SAMSUNG ELECTRONICS CO. LTD. KR 00164369 **B1** 09-11-1998 Αb JΡ 6-318899 Α DOCOMO ENGINEERING INC. 11-15-94 JΡ 8-228368 Α CASIO COMPUTER CO. LTD. 09-03-1996 Examiner Date Signature Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code. <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>3</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

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					U.S.	PATE	NT DOCUMENTS				
Examiner Initials*	Cite No.¹	U.S. Patent Document  Number Kind Code (if known)				ntee or Applicant Document		Date of Publicat of Cited Docume MM-DD-YY	ent		
7.YZ	A	5,797	,091				Clise et al.			August 18, 199	98
1	В	5,857	,020				Peterson, Jr			January 5, 199	9
	С	5,966	652				Coad et al.		-	October 12, 19	99
	D	6,064	,879				Fujiwara et al.			May 16, 2000	
	E	6,356	,939			B1	Dahl, Andrew A.		-	March 12, 200	2
1	F	6,567	179			B1	Sato et al.			May 20, 2003	
W6	G	2002/	0032658			A1	Oki et al.			March 14, 200	2
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<sup>&#</sup>x27;Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code. <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

FEB 1 3×2004 Complete if Known **Application Number** 09/688,321 INFORMATIONOSCI October 13, 2000 Filing Date STATEMENT BY APPLICANT First Named Inventor Richard J. Helferich 2631- ZG85 **Group Art Unit** T NGUYEN To be assigned -**Examiner Name** 1 **Attorney Docket Number** 0101-138 Sheet 1 of **U.S. PATENT DOCUMENTS U.S. Patent Document** Name of Patentee or Applicant Date of Publication of Cited Document Examiner Cite of Cited Document Kind Code<sup>2</sup> Number MM-DD-YYYY Initials\* No.1 (if known) July 29, 1997 Α 5,652,789 Miner et al. В April 4, 2000 6,047,053 Miner et al. C **B1** August 21, 2001 Henderson 6,278,862 FEB 1 7 2004 Technology Center 2600 **FOREIGN PATENT DOCUMENTS** Foreign Patent Document Date of Publication of Name of Patentee of Applicant of Examiner Cite Cited Document Number⁴ Kind⁵ Office<sup>3</sup> Cited Document MM-DD-YYYY ₽ Initials\* No.1 Code (if known) Examiner Date 3/28/08 Signature Considered

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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	Complete if Known
Application Number	09/688,321
Filing Date	October 13, 2000
First Named Inventor	Richard J. HELFERICH
Group Art Unit	<del>2831</del> 7680
Examiner Name	Unassigned T. NGUYEN
Attorney Docket Number	0101-138

## **U.S. PATENT DOCUMENTS**

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		U.S. Patent	Document		Name of Pate	entee or Applica	ınt	Date of Publication	)
Examiner Initials*	Cite No. <sup>1</sup>	Number	Kind Co		of Cite	d Document		of Cited Document MM-DD-YYYY	
87	Α	6,018,657			Kennedy, III et al.			January 25, 2000	)
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<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code. <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached. AB indicates that only an English language abstract is attached.

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7/6	Α	5,724	,410			Parvulescu et al.		Mar. 3, 1998		
Ĺ	В	5,907	,805			Chotai		May 25, 1999		
	С	6,233	,318			Picard et al.		May 15, 2001		
	D	6,292	,668			Alanara et al.		Sep. 18, 2001		
	E	6,370	,389			Isomursu et al.		Apr. 9, 2002		
	F	5,239	,466			Morgan et al.		Aug. 24, 1993		
<u> </u>	G	5,557	,659	•		Hyde-Thomson		Sep. 17, 1996		
	н	5,751	,793			Davies et al.	· <del></del>	May 12, 1998		
	1	6,259	,892	<u>_</u>		Helferich		Jul. 10, 2001		
<u> </u>	J	6,233	,430			Helferich	·	May 15, 2001		
	К	6,253	,061			Helferich		Jun. 26, 2001		
	L	6,097	,941			Helferich		Aug. 1, 2000		
<u> </u>	М	6,459	,360			Helferich		Oct. 1, 2002		
07/	N	6,462	,646			Helferich		Oct. 8, 2002		
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				Application Number	09/688,321
INF	<b>ORMATION</b>	N DI	SCLOSURE	Filing Date	10/13/2000
ST	ATEMENT	BY /	APPLICANT	First Named Inventor	Helferich, Richard J.
				Group Art Unit	2631 76 80
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Sheet	1	of	2	Attorney Docket Number	00101-138-USP

				U.S. PATENT DOCUMENT	'S	
Examiner Initials*	Cite No.1	U.S. Patent Number	Document Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
016		5,406,557		Baudoin	04/11/1995	
		5,455,579		Bennett et al.	10/3/95	
		5,483,352		Fukuyama et al.	01/09/1996	
		5,564,018		Flores et al.	10/08/1996	
		5,557,659		Hyde-Thompson	09/17/1996	
		5,608,786		Gordon	03/04/1997	
		5,630,060		Tang et al.	05/13/1997	
		5,633,916	_ ''	Goldhagen et al.	05/27/1997	
		5,649,305		Yoshida	7/15/97	
		5,717,742		Hyde-Thompson	02/10/1998	
		5,737,394		Anderson et al.	04/07/1998	
		5,737,395		Irribarren	04/07/1998	
		5,742,668		Pepe et al.	04/21/1998	
		5,745,689		Yeager et al.	04/28/1998	
		5,796,394		Wicks et al.	08/18/1998	
		5,805,886		Skarbo et al.	09/08/1998	* * * * * * * * * * * * * * * * * * * *
		5,870,454		Dahlen	02/09/1999	
		5,812,795		Horovitz et al.	09/22/1998	
		5,828,882		Hinckley	10/27/1998	
		5,835,089		Skarbo et al.	11/10/1998	
		5,872,926		Levec et al.	02/16/1999	
		5,875,436		Kikinis	02/23/1999	
		5,884,159		Thro et al.	03/16/1999	
		5,892,909		Grasso et al.	04/06/1999	
		5,905,495	1	Tanaka et al.	05/18/1999	
		5,913,032		Schwartz et al.	06/15/1999	
		5,938,725		Hara	08/17/1999	
		5.948,059		Woo et al.	09/07/1999	
		5,951,638		Hoss et al.	09/14/1999	· · · · · · · · · · · · · · · · · · ·
		5,961,590	7	Mendez et al.	10/05/1999	
4		5,961,620		Trent et al.	10/05/1999	
स्र		5,963,618		Porter	10/05/1999	<del></del>

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86			O 631 419 A1		Europe	12/28/1994		1
1			EP 0 777 394 A1		Europe	06/04/1997		T
			WO 98/58476		PCT	12/23/1998		1
			WO 99 65256A		Logica, Inc.	12/16/1999		$\top$
Do			EP 0831 664 A2		Siemens Business Communication Systems, Inc.	09/19/1997		T

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		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS	
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U.S. PATENT DOCUMENTS  September 19, 1997  2749  APR  APR  O  APR  APR						Docket Number		Application N	lumber
Richard J. Helferich Filing Date September 19, 1997  U.S. PATENT DOCUMENTS  VAMINER REF DOCUMENT DATE NAME CLASS SUBCLASS FILING ONLY APPROPRIATE  A 6,021,433 2/1/00 Payne et al.  FOREIGN PATENT DOCUMENTS  REF DOCUMENT DATE COUNTRY CLASS SUBCLASS Translations YES NO.	>INFO	RMA1	TION DISCLOS	URE CITA	TION	19529-030		08/934,14	3
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	DOCUMENT NO.	DATE		NAME		CLASS	SUBCLASS
А	6,087,956	7/2000		Helferich		340	825.44
8	5,974,447	10/1999		Cannon et al.		709	206
С	5,694,120	12/1997		Indekeu et el.		340	825.44
D	5,870,030	2/1999		DeLuca et al.		340	825.44
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78%	AA	5,448,759	09/05/95	Jay R. KREBS, et al.			
7	AB	5,239,679	08/24/93	Makoto MURAI			
1	AC	5,774,803	06/30/98	Kazuo KARIYA		1	RECEIVEL APR 0 4 2002
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APPLICANTED Richard J. Helferich

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MATERIAL INFORMATION STATEMENT (Use several sheets if necessary)

FIUNG DATE: September 19, 1997

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## U.S. PATENT DOCUMENTS

XAMINER INITIA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
SIZ	3,118,145	01/14/64	Nee		_	
4	4,480,253	10/30/84	Anderson			
	4,644,352	02/17/87	Fujii			
	4,737,979	04/12/88	Hashimoto	-		RECEIVED
	4,812,843	03/14/89	Champion, III et al.			
	4,821,308	04/11/89	Hashimoto			APR 6 4 2002
	4,825,456	04/25/89	Rosenberg			Technology
	4,845,491	07/04/89	Fascenda et al.			Technology Center 26
	4,853,688	08/01/89	Andros et al.			
	4,897,835	01/30/90	Gaskill et al.			
	4,942,598	07/17/90	Davis			
	4,961,216	10/02/90	Baehr et al.			
	4,965,569	10/23/90	Bennett et al.	1		
	4,975,694	12/04/90	McLaughlin et al.			
	5,005,013	04/02/91	Tsukamoto et al.			
	5,007,105	04/09/91	Kudoh et al.	1.		
	5,040,204	08/13/91	Sasaki et al.			
	5,043,721	08/27/91	May			
	5,047,763	09/10/91	Kuznicki et al.			
	5,065,423	11/12/91	Gaskill			
	5,093,659	03/03/92	Yamada			
	5,115,233	05/19/92	Zdunek et al.			
	5,117,449	05/26/92	Metroka et al.			
	5,128,980	07/07/92	Choi			
	5,134,724	07/28/92	Gehring et al.			
	5,138,311	08/11/92	Weinberg			
	5,138,312	08/11/92	Tsukamoto et al.			
	5,140,419	08/18/92	Galumbeck et al.			
	5,146,612	09/08/92	Grosjean et al.			
	5,153,903	10/06/92	Eastmond et al.			<del></del>
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	5,159,713	10/27/92	Gaskill et al.			<del></del>
4	5,173,688	12/22/92	DeLuca et al.	1		
Ely	5,177,780	01/05/93	Kasper et al.			

Form RTO-1449 U.S. DEPARTMENT OF COMMERCE ATTORNEY DOCKET NO 31 31520/168767 SERIAL NO 1 08/934,143 PATENT AND TRADEMARK OFFICE APPLICANT ... Richard J. Helferich MATERIAL INFORMATION STATEMENT (Use several sheets if necessary) FILING DATE: GROUP: 2683 September 19, 1997 **U.S. PATENT DOCUMENTS** FILING DATE IF XAMINER INITIA DOCUMENT NUMBER DATE NAME CLASS SUBCLASS 5,182,553 01/26/93 Kung 5,185,604 02/09/93 Nepple et al. 5,192,947 03/09/93 Neustein 5,194,857 03/16/93 Gomez 5,212,636 05/18/93 Nakazawa Technology Center 2600 5,220,366 06/15/93 King 5,227,774 07/13/93 Benoist 5,241,305 08/31/93 Fascenda et al. 5,247,700 09/21/93 Wohl et al. 5,257,307 10/26/93 Ise 5,265,033 11/23/93 Vajk et al. 5,285,426 02/08/94 Teodoridis 5,315,635 05/24/94 Kane et al. 5,329,501 07/12/94 Meister et al. 5,379,031 01/03/95 Mondrosch et al. 5,396,537 03/07/95 Schwendeman 5,398,021 03/14/95 Moore 5,402,466 03/28/95 Delahanty 5,410,302 04/25/95 Dulaney, III et al. 5,418,835 05/23/95 Frohman et al. 5,426,422 06/20/95 Heuvel et al. 5,426,594 06/20/95 Wright et al. 5,428,663 06/27/95 Grimes et al. 5,432,839 07/11/95 DeLuca 5,440,559 08/08/95 Gaskill 5,444,671 08/22/95 Tschannen et al. 5,452,356 09/19/95 **Albert** 5,457,732 10/10/95 Goldberg 5,473,143 12/05/95 Vak et al. 5,475,653 12/12/95 Yamada et al. 5,479,378 12/26/95 Yamada et al.

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5,479,408

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5,483,595

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orth PTO-1449 U.S. DEPARTMENT OF COMMERCE ATTORNEY DOCKETINO: 31520/168767 SERIALINO : - 08/934,143 PATENT AND TRADEMARK OFFICE APPLICANT Richard J. Helferich MATERIAL INFORMATION STATEMENT FILING DATE: September 19, 1997 (Use several sheets if necessary) GROUP N. 2688 **U.S. PATENT DOCUMENTS** FILING DATE IF APPROPRIATE EXAMINER INITIA DOCUMENT NUMBER DATE NAME CLASS SUBCLASS 5,485,503 01/16/96 Diem 5,487,100 01/23/96 Kane 5,497,373 03/05/96 Hulen et al. 5,530,438 06/25/96 Bickham et al. 5,530,930 06/25/96 Hahn 5,550,535 08/27/96 Park 5,555,446 09/10/96 Jasinski 5,572,196 11/05/96 Sakumoto et al. 5,572,488 11/05/96 Yamada et al. 5,579,372 11/26/96 **Aström** 5,581,593 12/03/96 Engelke et al. 5,588,009 12/24/96 Will 5,600,703 02/04/97 Dang et al. 5,604,788 02/18/97 Tett 5,623,242 04/22/97 Dawson, Jr. et al. 5.627.525 05/06/97 Kudoh et al. 5,635,918 06/03/97 Tett 5.644.627 07/01/97 Segal et al. 5.654.942 08/05/97 Akahane 5,663,703 09/02/97 Pearlman et al. 5,675,507 10/07/97 Bobo, II 5,675,627 10/07/97 Yaker 5,678,179 10/14/97 817 Turcotte et al. FOREIGN PATENT DOCUMENTS TRANSLATION EXAMINER INITIA **DOCUMENT NUMBER** DATE COUNTRY CLASS SUBCLASS OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) Document: Statutory Invention Registration No. H610; Date: 03/07/89; Inventor: Focarile et al. **EXAMINER:** DATE CONSIDERED: EXAMINER: Initia/if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Serial No.: 09/688,321



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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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**Attorney Docket Number** 

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 09/688,321

Filing Date October 13, 2000

First Named Inventor Richard J. Helferich

Group Art Unit To be assigned 26%

Examiner Name Not yet assigned 7, NGO Y

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Exam	Cite	U.S. Patent	T	U.S. PATENT DOCUMENTS	<u>:</u>	10.4	F::: D-4-
Initials	No.	Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
70%	1.	6,021,433*	2/1/00	Payne et al.			
	2.	5,003,576*	3/26/91	Helferich	379	88	4/14/89
	3.	5,592,532*	1/7/97	Koizumi	379	58	8/26/94
	4.	6,087,956*	7/2000	Helferich	340	825.44	
	5.	5,974,447*	10/1999	Cannon et al.	709	206	
	6.	5,694,120*	12/1997	Indekeu et al.	340	825.44	
	7.	5,870,030*	2/1999	DeLuca et al.	340	825.44	
	8.	4,868,560*	9/19/89	Oliwa et al.	340	825	5/11/88
	9.	5,175,758*	12/29/92	Levanto et al.	379	57	9/4/90
	10.	5,455,823*	10/3/95	Noreen et al.	370	50	10/19/92
	11.	5,463,672*	10/31/95	Kage	379	59	12/14/92
	12.	5,489,894*	2/6/96	Murray	340	825	4/4/94
	13.	5,630,207*	5/13/97	Gitlin et al.	455	54	6/19/95
	14.	5,684,859*	11/4/97	Chanroo et al.	379	58	5/1/95
	15.	5,696,500*	12/9/97	Diem	340	825	8/18/95
	16.	5,761,622*	6/2/98	Priest	455	522	5/18/95
	17.	5,815,800*	9/29/98	Su et al.	455	31	6/24/96
	18.	5,850,594*	12/15/98	Cannon et al.	455	31.3	8/26/96
	19.	5,781,857*	7/14/98	Hwang et al.			6/28/96
	20.	5,838,252*	11/17/98	Kikinis			9/9/96
	21.	5,448,759*	09/05/95	Jay R. Krebs et al.			
	22.	5,239,679*	08/24/93	Makoto Murai			
	23.	5,774,803*	06/30/98	Kazuo Kariya			
	24.	5,257,307*	10/26/93	Masahiro Ise			
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310	No	28.	4,644,352*	02/17/87	Fujii			
NAME OF THE PARTY		29.	4,737,979*	04/12/88	Hashimoto			
$\top$		30.	4,812,843*	03/14/89	Champion, III et al.		_	
		31.	4,821,308*	04/11/89	Hashimoto			-
		32.	4,825,456*	04/25/89	Rosenberg	-		
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		36.	4,942,598*	07/17/90	Davis			
		37.	4,961,216*	10/02/90	Baehr et al.			
		38.	4,965,569*	10/23/90	Bennett et al.	<b> </b>		
		39.	4,975,694*	12/04/90	McLaughlin et al.			
	$\int$	40.	5,005,013*	04/02/91	Tsukamoto et al.	,		
	$\int$	41.	5,007,105*	04/09/91	Kudoh et al.		<u> </u>	
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		44.	5,047,763*	09/10/91	Kuznicki et al.	1		
		45.	5,065,423*	11/12/91	Gaskill			
		46.	5,093,659*	03/03/92	Yamada	<b> </b>		
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		48.	5,117,449*	05/26/92	Metroka et al.			
		49.	5,128,980*	07/07/92	Choi			
		50.	5,134,724*	07/28/92	Gehring et al.			
		51.	5,138,311*	08/11/92	Weinberg			
		52.	5,138,312*	08/11/92	Tsukamoto et al.	<b>—</b>		
		53.	5,140,419*	08/18/92	Galumbeck et al.			
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		59.	5,177,780*	01/05/93	Kasper et al.	<del> </del>		
		60.	5,182,553*	01/26/93	Kung	-		
		61.	5,185,604*	02/09/93	Nepple et al.	<b> </b>		
		62.	5,192,947*	03/09/93	Neustein	-		
		63.	5,194,857*	03/16/93	Gomez	1-		
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**U.S. PATENT DOCUMENTS** Filing Date
If Appropriate Sub Class Cite **U.S. Patent** Exam **Issue Date** Class Name of Patentee(s) or Applicant(s) nitials Document No. 5,220,366\* 06/15/93 65. King 07/13/93 66. 5,227,774\* **Benoist** 67. 5,241,305\* 08/31/93 Fascenda et al. 09/21/93 68. 5,247,700\* Wohl et al. 69. 5,257,307\* 10/26/93 11/23/93 70. 5,265,033\* Vajk et al. 02/08/94 71. 5,285,426\* **Teodoridis** 05/24/94 72. 5,315,635\* Kane et al. 07/12/94 73. 5,329,501\* Meister et al. 01/03/95 74. 5,379,031\* Mondrosch et al. 03/07/95 75. 5,396,537\* Schwendeman 03/14/95 76. 5,398,021\* Moore 77. 5,402,466\* 03/28/95 Delahanty 04/25/95 78. 5,140,302\* Dulaney, III et al. 05/23/95 79. 5,418,835\* Frohman et al. 06/20/95 80. 5,426,422\* Heuvel et al. 06/20/95 81. 5,426,594\* Wright et al. 06/27/95 82. 5,428,663\* Grimes et al. 07/11/95 83. 5,432,839\* DeLuca 08/08/95 84. 5,440,559\* Gaskill 08/22/95 85. 5,444,671\* Tschannen et al. 09/19/95 86. 5,452,356\* Albert 10/10/95 87. 5,457,732\* Goldberg 12/05/95 88. 5,473,143\* Vak et al. 12/12/95 89. 5,475,653\* Yamada et al. 12/26/95 90. 5,479,378\* Yamada et al. 12/26/95 5,479,408\* Will 91. 07/02/96 92. 5,481,255\* Albert et al. 01/09/96 93. 5,483,595\* Owen 01/16/96 94. 5,485,503\* Diem 95. 01/23/96 5,487,100\* Kane 03/05/96 96. 5,497,373\* Hulen et al. 06/25/96 97. 5,530,438\* Bickham et al. 06/25/96 98. 5,530,930\* Hahn 08/27/96 99. 5,550,535\* Park 100. 09/10/96 5,555,446\* Jasinski 101. 5,572,196\* 11/05/96 Sakumoto et al.

U.S. PATENT DOCUMENTS  Exam Cite No. Document No. Issue Date Name of Patentee(s) or Applicant(s)  Class Sub Fili If A								
ARKO	Exam hitials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
9	राष्ट्र	102.	5,572,488*	11/05/96	Yamada et al.	-	)	
7	7	103.	5,579,372*	11/26/96	Aström		)	
	Π	104.	5,581,593*	12/03/96	Engelke et al.	-	)	
		105.	5,588,009*	12/24/96	Will		1	
ľ		106.	5,600,703*	02/04/97	Dang et al.		_	
ľ		107.	5,604,788*	02/18/97	Tett	-		
Γ		108.	5,623,242*	04/22/97	Dawson, Jr. et al.		_	
Γ		109.	5,627,525*	05/06/97	Kudoh et al.	~		
Γ		110.	5,635,918*	06/03/97	Tett			
Γ		111.	5,644,627*	07/01/97	Segal et al.		_	
Γ		112.	5,654,942*	08/05/97	Akahane			
	1	113.	5,663,703*	09/02/97	Pearlman et al.	T		
ſ	T	114.	5,675,507*	10/07/97	Bobo, II	_		
Γ		115.	5,675,627*	10/07/97	Yaker			
Γ		116.	5,678,179*	10/14/97	Turcotte et al.	-		
Γ		117.	5,448,759*	09/05/95	Krebs et al.	455	54.1	·
	1	118.	5,696,500*	12/09/97	Diem	455	38.4	
		119.	5,809,130*	09/15/98	Ayala	455	459	
		120.	5,473,667*	12/05/95	Neustein	455	31.2	
	1	121.	5,561,702*	10/01/96	Lipp et al.	455	31.2	
ľ	THE SHE	122.	5,726,643*	03/10/98	Tani	455	38.4	

	Note: How At with all a	FOREIGN PATENT DOCUMENTS		
ite Foreig Io. Office		Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
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. :		OTHER PRIOR ART - NON-PATENT LITERATURE DOCUMENTS						
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.						
VI	123.	Document: Statutory Invention Registration No. H610; Date: 03/07/89; Inventor: Focarile et al.*						

<sup>\*</sup> a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 08,934,143, filed September 19, 1997, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Serial No.: 09/688,321

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Examiner Signature

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